

7/20/07

PTO/SB/08a (08-03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10668672
	Filing Date		2003-09-23
	First Named Inventor	Samuel I. STUPP et al.	
	Art Unit	1045 1656	
	Examiner Name	Unknown S. Noakes	
	Attorney Docket Number	NANO 105 US2 (NU 22074)	

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
/S.M.N./	1	5871767		1999-02-16	Dionne et al.	
	2	6156321		2000-12-05	Thorpe et al.	
	3	6265539	B1	2001-07-24	Arlinghaus	
	4	6270765	B1	2001-08-07	Deo et al.	
	5	6458924	B2	2002-10-01	Knudsen et al.	
	6	6548048	B1	2003-04-15	Cuthbertson et al.	
	7	6855329	B1	2005-02-15	Shakesheff et al.	

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U.S.PATENT APPLICATION PUBLICATIONS

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Application Number	10668672
Filing Date	2003-09-23
First Named Inventor	Samuel I. STUPP et al.
Art Unit	1656
Examiner Name	Suzanne Marie Noakes
Attorney Docket Number	NANO 105 US2 (NU 22074)

/S.M.N./	1	Nomizu, Motoyoshi, Keizo Yamamura, Hynda K. Kleinman, and Yoshihiko Yamada. August 1, 1993. "Multimeric Forms of Tyr-Ile-Gly-Ser-Arg (YIGSR) Peptide Enhance the Inhibition of Tumor Growth and Metastasis." Cancer Research. Vol. 53, pp. 3459-3461.	<input type="checkbox"/>
	2	Jin, Young-Gu and K. J. Chang. February 26, 2001. "Mechanism for the Enhanced Diffusion of Charged Oxygen Ions in SiO ₂ ." Physical Review Letters. Vol. 86, No. 9, pp. 1793-1796.	<input type="checkbox"/>
	3	Matsui, Hiroshi and Robert MacCuspie. December 2001. "Metalloporphyrin Nanotube Fabrication Using Peptide Nanotubes as Templates." Nano Letters. Vol. 1, No. 12, pp. 671-675.	<input type="checkbox"/>
	4	Irvine, Darrell J. and Anne M. Mayes. 2001. "Nanoscale Clustering of RGD Peptides at Surfaces Using Comb Polymers. 1. Synthesis and Characterization of Comb Thin Films." Biomacromolecules. Vol. 2, No. 1, pp. 85-94.	<input type="checkbox"/>
	5	Matsui, Hiroshi, Precila Porrata, and Gary E. Douberly, Jr. 2001. "Protein Tubule Immobilization on Self-Assembled Monolayers on Au Substrates." Nano Letters. Vol. 1, No. 9, pp. 461-464.	<input type="checkbox"/>
	6	Slocik, Joseph M., Joshua T. Moore, and David W. Wright. March 2002. Monoclonal Antibody Recognition of Histidine-Rich Peptide Encapsulated Nanoclusters." Nano Letters. Vol. 2, No. 3, pp. 169-173.	<input type="checkbox"/>
	7	Shih, Sheng-Ming, Wei-Fang Su, Yuh-Jiuan Lin, Cen-Shawn Wu, and Chii-Dong Chen. 2002. "Two-Dimensional Arrays of Self-Assembled Gold and Sulfur-Containing Fullerene Nanoparticles." Langmuir. Vol. 18, No. 8, pp. 3332-3335.	<input type="checkbox"/>
	8	Wong, Michael S., Jennifer N. Cha, Kyoung-Shin Choi, Timothy J. Deming, and Galen D. Stucky. 2002. "Assembly of Nanoparticles into Hollow Spheres Using Block Copolypeptides." Nano Letters. Vol. 2, No. 6, pp. 583-587.	<input type="checkbox"/>
↓	9	"AccessScience Search Results. Amphiphile." Accessed online May 7, 2007. http://www.accessscience.com/search/asearch?location=titletext&newSearch=1&pubpriv=private&categories=dictionary&catgval=dictionary&text=amphiphile . McGraw-Hill Encyclopedia of Science & Technology Online.	<input type="checkbox"/>

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/S.M.N./	15	Schmidt, Christine E. and Jennie Baier Leach. 2003. "Neural Tissue Engineering: Strategies for Repair and Regeneration." Annu. Rev. Biomed. Eng. Vol. 5, pp. 293-347.	<input type="checkbox"/>
	16	t' Hart, Bert A. and Sandra Amor. 2003. "The Use of Animal Models to Investigate the Pathogenesis of Neuroinflammatory Disorders of the Central Nervous System." Current Opinion in Neurology. Vol. 16, pp. 375-383.	<input type="checkbox"/>
	17	Beniash, Ella, Jeffery D. Hartgerink, Hannah Storrie, John C. Stendahl, and Samuel I. Stupp. 2005. "Self-Assembling Peptide Amphiphile Nanofiber Matrices for Cell Entrapment." Acta Biomaterialia. Vol. 1, pp. 387-397.	<input type="checkbox"/>
	18	Hoke, Ahmet. August 2006. "Mechanisms of Disease: What Factors Limit the Success of Peripheral Nerve Regeneration in Humans?" Nature Clinical Practice Neurology. Vol. 2, No. 8, pp. 448-454.	<input type="checkbox"/>
	19	Kokkoli, Efrosini, Anastasia Mardilovich, Alison Wedekind, Emilie L. Rexeisen, Ashish Garg, and Jennifer A. Craig. 2006. "Self-Assembly and Applications of Biomimetic and Bioactive Peptide-Amphiphiles." Soft Matter. Vol. 2, pp. 1015-1024.	<input type="checkbox"/>
↓	20	The LabRat.com. 2007, updated. Hank's Buffered Salt Solution (HBSS) Recipe. http://www.thelabrat.com/protocolsHanks.shtml . Printed January 19, 2007. Pages 1-2.	<input type="checkbox"/>

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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
/S.M.N./	1	20030092672	A1	2003-05-15	Darcy et al.	
/S.M.N./	2	20050214257	A1	2005-09-29	Zhao et al.	

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FOREIGN PATENT DOCUMENTS

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	1	99/36107	WO		1999-07-22	Shakeshen et al.		<input type="checkbox"/>

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
/S.M.N./	1	Nomizu, Motoyoshi, Atsushi Utani, Norio Shiraishi, Maura C. Kibbey, Yoshihiko Yamada, and Peter P. Roller. July 15, 1992. "The All-D-Configuration Segment Containing the IKVAV Sequence of Laminin A Chain Has Similar Activities to the All-L-Peptide in Vitro and in Vivo." The Journal of Biological Chemistry. Vol. 267, No. 20, pp. 14118-14121.	<input type="checkbox"/>
/S.M.N./	2	Margomenou-Leonidopoulou, G. 1994. "Thermotropic Mesophases of Ionic Amphiphiles. II. Ionic Amphiphiles in Aqueous Media." Journal of Thermal Analysis. Vol. 42, pp. 1041-1061.	<input type="checkbox"/>
/S.M.N./	3	Rappolt, Michael and Gert Rapp. 1996. "Structure of the Stable and Metastable Ripple Phase of Dipalmitoylphosphatidylcholine." Eur. Biophys. J. Vol. 24, pp. 381-386.	<input type="checkbox"/>

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/S.M.N./	4	Goveas, J. L. and S. T. Milner. 1997. "Dynamics of the Lamellar—Cylindrical Transition in Weakly Segregated Diblock Copolymer Melts." <i>Macromolecules</i> . Vol. 30, No. 9, pp. 2605-2612.	<input type="checkbox"/>
	5	Munson, John B. and Stephen B. McMahon. 1997. "Effects of GDNF on Axotomized Sensory and Motor Neurons in Adult Rats." <i>European Journal of Neuroscience</i> . Vol. 9, pp. 1126-1129.	<input type="checkbox"/>
	6	Fernandez, A., M. A. Alsina, I. Haro, R. Galantai, and F. Reig. 1998. "Synthesis and Physicochemical Characterization of Cyclic Laminin Related Peptides." <i>Langmuir</i> . Vol. 14, No. 13, pp. 3625-3630.	<input type="checkbox"/>
	7	Yagi, Nobuhiro, Yoshikatsu Ogawa, Masato Kodaka, Tomoko Okada, Takenori Tomohiro, Takeo Konakahara, and Hiroaki Okuno. 1999. "A Surface-Modified Functional Liposome Capable of Binding to Cell Membranes." <i>Chem. Commun.</i> Pp. 1687-1688.	<input type="checkbox"/>
	8	Luo, Yi and Glenn D. Prestwich. 2001. "Novel Biomaterials for Drug Delivery." <i>Expert Opin. Ther. Patents</i> . Vol. 11, No. 9, pp. 1395-1410.	<input type="checkbox"/>
	9	Marchi-Artzner, Valerie, Barbara Lorz, Ulrike Hellerer, Martin Kanteleiner, Horst Kessler, and Erich Sackmann. 2001. "Selective Adhesion of Endothelial Cells to Artificial Membranes with a Synthetic RGD-Lipopeptide." <i>Chem. Eur. J.</i> Vol. 7, No. 5, pp. 1095-1101.	<input type="checkbox"/>
	10	Blight, Andrew R. November 2002. "Miracles and Molecules—Progress in Spinal Cord Repair." <i>Nature Neuroscience Supplement</i> . Vol. 5, pp. 1051-1054.	<input type="checkbox"/>
	11	Rodger, Alison, Jascindra Rajendra, Rachel Marrington, Malin Ardhammar, Bengt Norden, Jonathan D. Hirst, Andrew T. B. Gilbert, Timothy R. Dafforn, David J. Halsall, Cheryl A. Woolhead, Colin Robinson, Teresa J. T. Pinheiro, Jurate Kazlauskaitė, Mark Seymour, Niuvis Perez, and Michael J. Hannon. 2002. "Flow Oriented Linear Dichroism to Probe Protein Orientation in Membrane Environments." <i>Phys. Chem. Chem. Phys.</i> Vol. 4, pp. 4051-4057.	<input type="checkbox"/>
	12	Silva, G. A., K. L. Kehl, K. L. Niece, and S. I. Stupp. May 4, 2003. "Nanoengineered Peptide Amphiphile Network for Photoreceptor Replacement in Degenerative Retinal Disorders." <i>Investigative Ophthalmology & Visual Science</i> . Abstract No. 492 from Annual Meeting of the Association for Research in Vision and Ophthalmology.	<input type="checkbox"/>
	13	Brandenburg, Klaus, Frauke Wagner, Mareike Muller, Holger Heine, Jorg Andra, Michel H. J. Koch, Ulrich Zahringer, and Ulrich Seydel. 2003. "Physicochemical Characterization and Biological Activity of a Glycoglycerolipid from <i>Mycoplasma fermentans</i> ." <i>Eur. J. Biochem.</i> Vol. 270, pp. 3271-3279.	<input type="checkbox"/>
↓	14	Czeisler, C., V. M. Tysseling-Mattiace, G. A. Silva, S. I. Stupp, and J. A. Kessler. 2003. "Behavioral Improvement and Increased Survival Rate after Treatment with a Self Assembling Gel in a Rat Model of Spinal Cord Injury." 2003 Abstract Viewer/Itinerary Planner. Program No. 245.22. Washington, DC: Society for Neuroscience. Printed February 5, 2007. Page 1. http://sfn.scholarone.com/itin2003/main.html?new_page_id=126&abstract_id=1554...	<input type="checkbox"/>



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/668,672
		Filing Date	09/23/2003
		First Named Inventor	Samuel Stupp
		Art Unit	1054 1656
		Examiner Name	Jennifer L. Harle S. Noakes
Sheet 1	of 1	Attorney Docket Number	8696

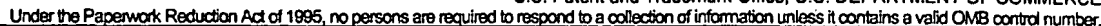
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/S.M.N./		TIRREL, M., "Biofunctionalization of Surfaces with Peptide Amphiphiles", AVS 46.sup.th International Symposium, Paper No. BI-WeM7, October 27, 1999	
/S.M.N./		NARUSAWA et al., "Hydrophilicity of Polar and Apolar Domains of Amphiphiles", Journal of Colloid and Interface Science 229, pp. 375-390 (2000), September 15, 2000	

Examiner Signature	/Suzanne M. Noakes/	Date Considered	09/19/2007
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	2
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Complete if Known

Application Number	10/668,672
Filing Date	09/23/2003
First Named Inventor	Samuel I. Stupp
Art Unit	4645 1656
Examiner Name	Not Known
Attorney Docket Number	8696 S.Noakes

U.S. PATENT DOCUMENTS

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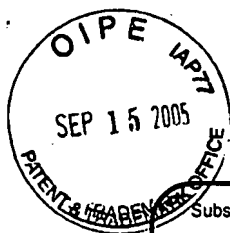
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 2

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Complete if Known

Application Number	10/668,672
Filing Date	09/23/2003
First Named Inventor	Samuel I. Stupp
Art Unit	1645-1656
Examiner Name	S. Noakes
Attorney Docket Number	8696

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/S.M.N./		GULER, MUSTAFA, O. et al., "Presentation and Recognition of Biotin on Nanofibers Formed by Branched Peptide Amphiphiles", NANO LETTERS 2005, Vol. 5, No. 2, pages 249-252. Copyright 2005 American Chemical Society, Published on Web 12/29/2004.	
		HARTGERINK, JEFFREY D., et al., "Self-Assembly and Mineralization of Peptide-Amphiphile Nanofibers", www.sciencemag.org , 23 November 21, Vol. 294, pages 1684-1688.	
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/Suzanne M. Noakes/

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		Number - Kind Code ² (if known)			
/S.M.N./		US- 2002/0007217	01-17-2002	Jacob et al.	
/S.M.N./		US- 2002/0160471	10-31-2002	Kisiday et al.	
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
/S.M.N./		WO 03/070749	08-28-2003	Stupp et al.		
		WO 2005/056576	06-23-2005	Stupp, S.		
		WO 00/13710	03-16-2000	Jennings, R.N., Hr. et al.		
		WO 03/040336	05-15-2003	Fishman, M.C. et al.		
		WO 00/64481	11-02-2000	Sakiyama, S.E. et al.		
		WO 2002/062969	08-15-2003	Semino et al.		

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/S.M.N./		Wang-Lin-Fa. Epitope Identification and Discovery Using Phase Display Libraries: Applications in Vaccine Development and Diagnostics. Current Drug Targets, 2004, Vol. 5, No. 1, pages 1-15.	
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Examiner Signature	/Suzanne M. Noakes/	Date Considered	09/19/2007
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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/668,672
				Filing Date	September 23, 2003
				First Named Inventor	Samuel I. STUPP et al.
				Art Unit	1845 1656
				Examiner Name	Unknown S. Noakes
Sheet	1	of	21	Attorney Docket Number	NANO 105 US2 (NU 22074)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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			Application Number	10/668,672	
			Filing Date	September 23, 2003	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	1645	
			Examiner Name	Unknown	
Sheet	2	of	21	Attorney Docket Number	NANO 105 US2 (NU 22074)

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B12	WO 2004/010020 A2	00-04-2004	Stupp et al.		
B13	WO 2004/024770 A2	03-25-2004	Stupp et al.		
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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
/S.M.N./	C1	Brown, Walter E. December 15, 1962. "Octacalcium Phosphate and Hydroxyapatite." <i>Nature</i> . Vol. 196, pp. 1048-1050.		
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Examiner Signature	/Suzanne M. Noakes/	Date Considered	09/19/2007
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/668,672
				Filing Date	September 23, 2003
				First Named Inventor	Samuel I. STUPP et al.
				Art Unit	1645 1656
				Examiner Name	Unknown S. Noakes
Sheet	3	of	21	Attorney Docket Number	NANO 105 US2 (NU 22074)

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Examiner Signature	/Suzanne M. Noakes/	Date Considered	09/19/2007
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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/668,672
				Filing Date	September 23, 2003
				First Named Inventor	Samuel I. STUPP et al.
				Art Unit	1645 1656
Examiner Name	Unknown S. Noakes				
Sheet	4	of	21	Attorney Docket Number	NANO 105 US2 (NU 22074)

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Examiner Signature	/Suzanne M. Noakes/	Date Considered	09/19/2007
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				Filing Date	September 23, 2003
				First Named Inventor	Samuel I. STUPP et al.
				Art Unit	1646-1656
				Examiner Name	Unknown S. Noakes
Sheet	5	of	21	Attorney Docket Number	NANO 105 US2 (NU 22074)

		<i>Angew. Chem. Int. Ed. Engl.</i> Vol. 31, pp. 153-169.	
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		Art Unit	1645 / 656
		Examiner Name	Unknown S. Noakes
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			Filing Date	September 23, 2003	
			First Named Inventor	Samuel I. STUPP et al.	
			Art Unit	4645 1656	
			Examiner Name	Unknown <i>S. Noakes</i>	
			Attorney Docket Number	NANO 105 US2 (NU 22074)	
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				Art Unit	4645 1656
				Examiner Name	Unknown S. Noakes
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				First Named Inventor	Samuel I. STUPP et al.
				Art Unit	1645 / 456
				Examiner Name	Unknown S. Noakes
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

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				First Named Inventor	Samuel I. STUPP et al.
				Art Unit	1645 1656
				Examiner Name	UNKNOWN S. Noakes
Sheet	14	of	21	Attorney Docket Number	NANO 105 US2 (NU 22074)

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			Examiner Name	Unknown S. Noakes	
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				Examiner Name	Unknown S. Noakes
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Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/668,672
				Filing Date	September 23, 2003
				First Named Inventor	Samuel I. STUPP et al.
				Art Unit	1645 1656
				Examiner Name	Unknown S. Noakes
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				Art Unit	1646 / 656
				Examiner Name	Unknown S. Noakes
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

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